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PTO-1449

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PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 2048/57906-A /JPW/MAF/DJK	Serial No. 09/464,902
				Applicant(s) William C. Olson et al.	
				Filing Date December 16, 1999	Art Unit 1648

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number						Date	Name	Class	Subclass	Filing Date If Appropriate	
ell	US	6	5	2	8	6	2	5	3/4/03	Wu et al.	530	388.22	7/11/97
	US	0	0	2	3	0	4	4	1/30/03	Li et al.	530	388.1	9/3/02
	US	0	0	4	8	7	8	6	4/25/02	Rosen et al.	435	69.1	2/9/01
	US	0	0	6	1	8	3	4	5/23/02	Rosen et al.	514	1	2/9/01
	US	0	0	7	6	7	4	5	6/20/02	Li et al.	435	69.1	11/18/98
	US	0	0	9	9	1	7	6	7/25/02	Li et al.	530	387.1	6/25/99
	US	0	1	0	6	7	4	2	8/8/02	Samson et al.	435	69.51	8/24/01
	US	0	1	1	0	8	0	5	8/15/02	Samson et al.	435	5	8/24/01
	US	0	1	1	0	8	7	0	8/15/02	Samson et al.	435	69.51	8/24/01
✓	US	0	1	3	2	2	6	9	9/19/02	Li et al.	435	7.2	5/11/00

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ell	Co, et al., "Humanized Antibodies for Antiviral Therapy", Proceedings of the National Academy of Science, USA, April 1991, Vol. 88, pages 2869-2873. (Exhibit L)
✓	Trkola, et al., "Potent Broad-spectrum Inhibition of Human Immunodeficiency Virus Type I by the CCR5 Monoclonal Antibody PRO 140", Journal of Virology, January 2001, Vol. 75, No. 2, pages 579-588. (Exhibit M)
✓	Olson, et al., "Differential Inhibition of Human Immunodeficiency Virus Type 1 Fusion, Gp 120 binding and CC-chemokine Activity of Monoclonal Antibodies to CCR5", Journal of Virology, May 1999, Vol. 73, No. 5, pages 4145-4155. (Exhibit N)
	Parren, et al., "Antibody Protects Macaques Against Vaginal Challenge with a Pathogenic RS Simian/Human Immunodeficiency Virus at Serum Levels Giving Complete Neutralization In Vitro", Journal of Virology, September 2001, Vol. 75, No. 17, pages 8340-8347 (Exhibit O)
	Lehner, et al., "Immunogenicity of the Extracellular Domains of C-C Chemokine Receptor 5 and the In Vitro Effects on Simian Immunodeficiency or HIV Infectivity", Journal of Immunology, January 2001, Vol. 166, No. 12, pages 7446-7455 (Exhibit P)
✓	Wu, et al., "CCR5 Levels and Expression Pattern Correlate with Infectability by Macrophagetropic HIV-1 in Vitro", Journal of Experimental Medicine, May 5, 1997, Vol. 185, No. 9, pages 1681-1691. (Exhibit Q)

EXAMINER *Cheney L* **DATE CONSIDERED** *1/24/07*

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U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
57906-A/JPW/SHS/GJC Serial No.
09/464,902Applicants
William C. Olson, et al.Filing Date
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W	Vijh-Warrier, S., A. Pinter, W.J. Honnen and S.A. Tilley. 1996. Synergistic neutralization of human immunodeficiency virus type 1 by a chimpanzee monoclonal antibody against the V2 domain of gp120 in combination with monoclonal antibodies against the V3 loop and the CD4-binding site. J. Virol. 70:4466-4473 (Exhibit 23);
X	Wu, L., G. LaRosa, N. Kassam, C.J. Gordon, H. Heath, N. Ruffing, H. Chen, J. Humblia, M. Samson, M. Parmentier, J.P. Moore and C.R. Mackay. 1997. Interaction of chemokine receptor CCR5 with its ligands: multiple domains for HIV-1 gp120 binding and a single domain for chemokine binding. J. Exp. Med. 186:1373-1381 (Exhibit 24);
Y	Ylisastigui, L., J.J. Vizzanova, E. Drakopoulou, P. Paindavoine, C.F. Calvo, M. Parmentier, J.C. Gluckman, C. Vita and A. Benjoud. 1998. Synthetic full length and truncated RANTES inhibit HIV-1 infection of primary macrophages. AIDS 12:977-984 (Exhibit 25).
Z	Tilley, S. A., W.J. Honnen, S. Warrier, M.E. Racho, T.C. Chou, M. Girard, E. Muchmore, M. Hilgartner, D.D. Ho, M.S.C. Fung, and A. Pinter. 1991. Potent Neutralization of HIV-1 by Human and Chimpanzee Monoclonal Antibodies Directed Against Three Distinct Epitope Clusters of gp120. Sixieme Colloque Des Cent Gardes. 211-216 (Exhibit 26)
AA	Tilley, S.A., W.J. Honnen, M.E. Racho, T.C. Chou, and A. Pinter. 1992. Synergistic Neutralization of HIV-1 by Human Monoclonal Antibodies Against the V3 Loop and the CD4-Binding Site of gp120. AIDS Research and Human Retroviruses 80:4: 461-467 (Exhibit 27)
AB	Choe, H., M. Farzan, Y. Sun, N. Sullivan, B. Rollins, P.D. Ponath, L. Wu, C.R. Mackay, G. LaRosa, W. Newman, N. Gerard, C. Gerard, and J. Sodroski. The Beta-Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates. Cell 85:1135-1148 (Exhibit 28)

EXAMINER	DATE CONSIDERED	11/27/06
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Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 57906-A/JPW/SHS/GJC	Serial No. 09/464,902
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U.S. PATENT DOCUMENTS						
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FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Subclass	Translation
						Yes
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
ee	AC	Doranz, B.J., J. Rucker, Y. Yi, R. Smyth, M. Samson, S.C. Peiper, M. Parmentier, R.G. Collman, and R.W. Doms. A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and Beta-Chemokine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors. Cell 85:1149-1158 (Exhibit 29)				
1	AD	Deng, H., R. Liu, W. Ellmeier, S. Choe, D. Unutmaz, M. Burkhardt, P.D. Marzio, S. Marmon, R.E. Sutton, C.M. Hill, C.B. Davis, S.C. Peiper, T.J. Schall, D.R. Littman, and N.R. Landau. Identification of a Major Co-Receptor for Primary Isolates of HIV-1. Nature 381:661-666 (Exhibit 30) <i>June 10, 1993</i>				
1	AE	Feng, Y., C.C. Broder, P.E. Kennedy, E.A. Berger. HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor. Science 272:872-877 (Exhibit 31) <i>May 10, 1996</i>				
EXAMINER: <i>Cheney Le</i>	DATE CONSIDERED <i>11/27/06</i>					
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